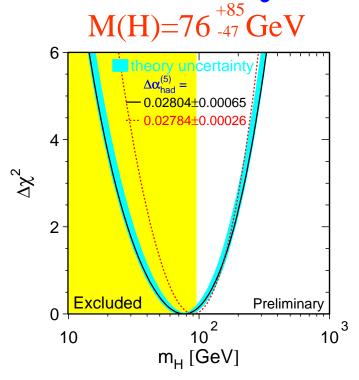
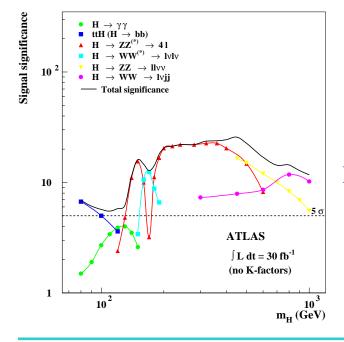
What if SM Higgs is very heavy?



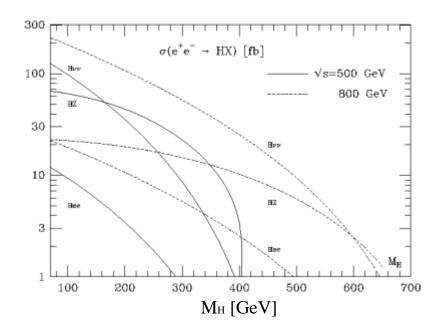
- Is M(H) > M(tt) possible?
- If so, what will LHC know?
- What will LHC not know?
- What does a LC measure?
- What about non-SM Higgs?

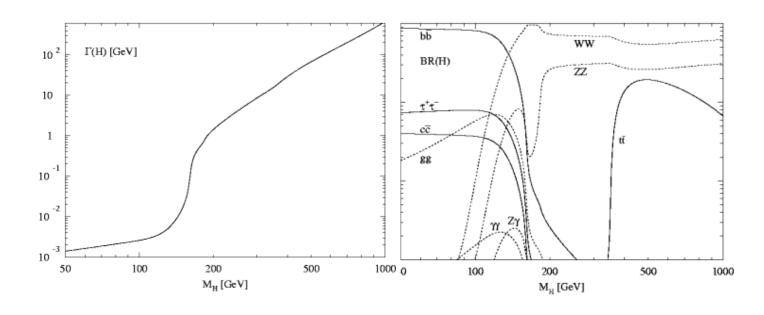


LHC discovery reach to 1TeV (also true for MSSM)

Standard Model Higgs

- Production -Higgsstralung and
 WW fusion
- Width is large
- Decay -- 2/3 WW and 1/3 ZZ

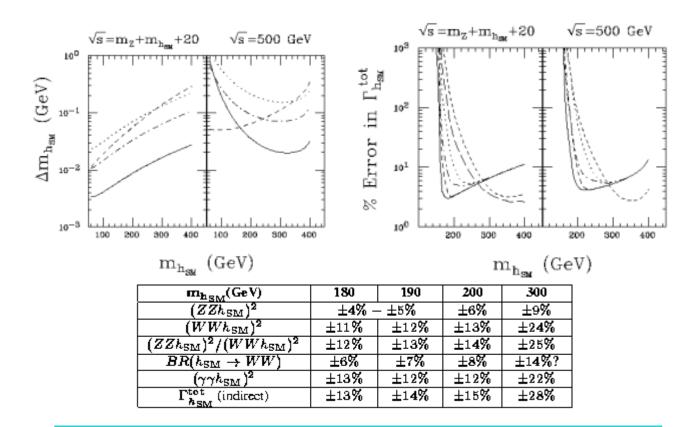




Assume M(SM Higgs) = 300 GeV

Gunion, et al, Snowmass '96, hep-ph/9703330

- LHC has a clean 4 lepton channel
 - Determination of total width to 4%
- LC measurement estimates mostly extrapolated from lower M_H studies
 - HZ and WW/ZZ can be separated
 - Detector performance can be important



Working Group Plans

- Call was to keep the focus narrow
- Option 1
 - Explore m(H)>350 GeV
 - Consider Ecm as a variable
 - Focus on unique contributions of LC
- Option 2
 - Consider heavy to be m(H)>200 GeV
 - Focus on WW/ZZ modes in the range where the width changes
 - Especially consider case where W->jets
- Option 3
 - Assume m(H)> 350 GeV
 - Focus on non-Higgs LC Physics
- Option 4
 - Focus on limited capabilities of the LC for a very heavy SM Higgs